

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Butyl Glycol
CAS Number: 111-76-2
EINECS Number: 203-905-0
Index number: 603-014-00-0

Relevant identified uses of the substance or mixture and uses advised against:

Application of the substance / the preparation: Solvent

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS07

Acute Tox: 4 H302 Harmful if swallowed.
Acute Tox: 4 H312 Harmful in contact with skin.
Acute Tox: 4 H332 Harmful if inhaled.
Skin Irrit: 2 H315 Causes skin irritation.
Eye Irrit: 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

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Xi; Irritant

R36/38: Irritating to eyes and skin.

Information concerning particular hazards for human and environment: Vapours of the product are heavier than air and may accumulate on the ground, in the sump of pits, drains or cellars with higher concentrations. Ground level ventilation is recommended.

Label elements:**Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS07

Signal word: Warning**Hazard-determining components of labelling:** Void

Hazard statements:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Precautionary statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P352 Wash with plenty of soap and water.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn Harmful

Risk phrases:

- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 36/38 Irritating to eyes and skin.

[cont...]

SAFETY DATA SHEET

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Safety phrases:

- 2 Keep out of the reach of children.
- 36/37 Wear suitable protective clothing and gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.

Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Substances:

CAS No. Description: 111-76-2 2-butoxyethanol

Identification number(s)

EINECS Number: 203-905-0

Index number: 603-014-00-0

4. FIRST AID MEASURES

Description of first aid measures:

General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. Seek immediate medical advice.

After skin contact: Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. If skin irritation continues, consult a doctor. Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Call a doctor immediately. Seek immediate medical advice.

After swallowing: Do not induce vomiting; rinse mouth with water, call for medical help immediately. Call for a doctor immediately. Rinse out mouth and then drink plenty of water.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

Headache

Dizziness

Nausea

[cont...]

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing agents: CO₂, powder or water spray (Do not use different types of extinguisher on the same fire/spillage). Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture: Carbon monoxide (CO), if incomplete combustion.

Advice for fire-fighters:

Protective equipment: Respiratory protective device.
Wear self-contained respiratory protective device.

Additional information: Collect contaminated fire-fighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Keep people at a distance and stay on the windward side.
Wear protective clothing.

Environmental precautions: In case of seepage into the ground inform responsible authorities.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Take note of emission threshold.
Use only in well ventilated areas.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities:**Storage:****Requirements to be met by storerooms and receptacles:**

- Provide solvent resistant, sealed floor.
- Prevent any seepage into the ground.
- Use only receptacles specifically permitted for this substance/product.
- Unsuitable material for receptacle: aluminium.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters:**Ingredients with limit values that require monitoring at the workplace:****111-76-2 2-butoxyethanol:**

WEL	Short-term value: 50 ppm
	Long-term value: 25 ppm
	Sk

Additional information: The lists valid during the making were used as basis.

Exposure controls:**Personal protective equipment:****General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Avoid alcohol consumption while working with the product.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

Solvent resistant gloves. Use gloves approved to BS EN 364 Chemical Resistant Gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

[cont...]

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

General Information:

Appearance:

Form: Liquid

Colour: Colourless

Odour: Characteristic

Change in condition:

Melting point/Melting range: -70.4°C

Boiling point/Boiling range: 171°C

Flash point: 65°C

Ignition temperature: 240°C

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: 1.1 Vol %

Upper: 10.6 Vol %

Vapour pressure at 20°C: 1.2 hPa

Density at 20°C: 0.9 g/cm³

Solubility in / Miscibility with water at 20°C: 1 g/l

Viscosity:

Dynamic at 20°C: 6.4 mPas

10. STABILITY AND REACTIVITY

Reactivity:

Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications and industry good practice.

Possibility of hazardous reactions: No dangerous reactions known.

Incompatible materials: Acids, strong oxidising agents, strong alkalis.

Hazardous decomposition products: Carbon monoxide if incomplete combustion.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects:****Acute toxicity:****LD/LC50 values relevant for classification:**

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

12. ECOLOGICAL INFORMATION**Toxicity:**

Aquatic toxicity: No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods:**

Recommendation: Must not be disposed together with household refuse. Do not allow product to reach sewage system.

European waste catalogue Refer to our office for EWC codes for disposal of used solvent.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We can provide this service - please contact us for more details. Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used drums (205litre only).

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION**Land transport ADR/RID (cross-border)**

ADR/RID class: -

Maritime transport IMDG:

Marine pollutant: No

UN "Model Regulation": -

Special precautions for user: Not applicable.

[cont...]

15. REGULATORY INFORMATION

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Relevant phrases: The 'R' phrase listed below are for reference only and do not form the R phrases for the labelling or classification of the product. Refer to section 3 for this information.

Training hints: Make users aware of the contents of this document and train according to use and risks within your operation.

Department issuing MSDS: Product safety department.

Contact: Sales Office in the first instance.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.